

In the Claims:

1. (Currently amended). An isolated DNA sequence comprising a polynucleotide encoding a polypeptide set forth in ~~selected from the group consisting of~~ SEQ ID Nos: 1, ~~3-19~~ wherein said polypeptide is required for the synthesis of antibiotic TA.

2. (Cancelled).

3. (Cancelled).

4. (Currently Amended). A vector comprising the isolated DNA sequence according to claims 1 ~~or~~ 2.

5. (Currently amended). A vector, according to claim 4, further comprising a promoter sequence operatively linked to the said isolated DNA sequence.

6. (Previously Amended). A host cell transformed with the vector according to claim 5.

7. (Previously Amended). An *E. coli* host cell transformed with the vector according to claim 5.

8. (Previously Amended). A method of making a polypeptide comprising the following steps:

culturing a host cell according to Claim 6 under such conditions that the encoded polypeptide is expressed, and
isolating said encoded polypeptide.

9. (Withdrawn). A transformed *E. coli* carrying Seq. ID No:1 and 2.

10. (cancelled).

11. (Currently amended). TheA host cell, wherein the host cell is selected from the group of suitable eukaryotic and prokaryotic cells, of claim 6, wherein said host cell is a eukaryotic or a prokaryotic cell, which is transformed with the vector according to claim 10.

12. (Cancelled).

13. (Currently amended). The vector of claim 5, wherein said vector is a A recombinant expression vector comprising a DNA sequence according to claim 7.

14. (Currently amended). A cosmid containing the DNA sequence according to claim 1-7.

15. (Withdrawn). A method of using the TA genes for combinatorical genetics.

16. (Withdrawn). A method of using the TA genes encoding for the synthesis, modification or regulation of antibiotic TA.